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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,463	08/20/2003	Paul C. Goodley	10031215	5934
75	90 03/10/2005		EXAM	INER
AGILENT TECHNOLOGIES, INC.			FERNANDEZ, KALIMAH	
Legal Departme	ent, DL429			
	perty Administration		ART UNIT	PAPER NUMBER
P.O. Box 7599			2881	
Loveland CO	80537_0500			

Please find below and/or attached an Office communication concerning this application or proceeding.

			—— H:H
	Application No.	Applicant(s)	11.
	10/644,463	GOODLEY ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kalimah Fernandez	2881	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommunication of the period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by statution and the period for reply will be office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of third will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	tion.
Status			
1) Responsive to communication(s) filed on 24	February 2005.		
•—	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	• • • • • • • • • • • • • • • • • • •	• •	is
Disposition of Claims			
4) ☐ Claim(s) 1-6,13-25,27 and 29-33 is/are pend 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) 24,25,27 and 29-32 is/are allowed. 6) ☐ Claim(s) 1-6,13-23 and 33 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examination 10) ☑ The drawing(s) filed on 20 August 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the	e: a) accepted or b) one drawing(s) be held in abeyatection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	nts have been received. Ints have been received in a little in the control of the	Application No n received in this National Stage	
Attachment(s) 1) \[\sum \] Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2. Claims 1-5,13-23, and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by US Pat No 6,627,882 issued to Schulz et al.
- 3. As per claims 1,7,9, and 13, Schulz et al disclose an electrospray source of ions for an analyzer (col.8, lines 17-20).
- 4. Schulz et al disclose a reservoir (242) for containing a liquid (col.17, line 63-col.18, line 3).
- 5. Schulz et al disclose a manifold for containing a liquid, the manifold having a plurality of nozzles (col.8, lines 21-31), each of the nozzles having a channel and a plurality of openings operatively connected to the channel (see fig. 5a-b; col.8, lines 23-26). Schulz et al disclose the plurality of openings are for ejecting droplets (see col.8, lines 26-31).

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6. Schulz et al disclose a conduit connecting the reservoir (242) to the manifold so that liquid in the manifold can flow from the reservoir through the channel of each of the nozzles and through the openings (col.17, lines 45-50).

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- 7. Schulz et al disclose a counter electrode and the openings, the electrical potential difference and the size of the openings being sufficient to enable the liquid to be ejected from the openings in droplets and to enable ions to be ejected from the openings in droplets and to enable ions to be ejected from the droplets (col.4, lines 52-67; col.5, lines 37-65; col.18, lines 3-7).
- 8. Moreover, Schulz et al disclose tips (col.17, lines 50-51).
- 9. As per claims 2,15, and 21, Schulz et al disclose a plurality of reservoirs and a plurality of conduits for connected the reservoirs to the manifold (col.17, lines 35-44).
- 10. As per claims 3,16, 22, and 33, Schulz et al disclose evenly spaced nozzles (tips) (see fig. 4; col.20, lines 27-31).
- 11. As per claims 4 and 19, Schulz et al disclose an electrode (col.11, lines 30-32; col.12, lines 1-7; col.18, lines 3-7).

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12. As per claims 5 and 14, Schulz et al disclose the openings being 20 micrometers (col.20, lines 57-60).

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- 13. As per claims 17-18, Schulz et al disclose an upper housing (252) connected to the conduit and a lower housing connected to the upper housing and containing the tips, wherein the lower housing has a plurality of apertures and a plurality of tubes (see fig. 5a-b).
- 14. As per claims 20 and 23, Schulz et al disclose conveying liquid from a reservoir of the liquid from a reservoir of the liquid to a manifold (col.17, line 66-col.18, line 3); conveying the liquid from the manifold to a plurality of openings partly and toward a counter electrode assembly having an ion passageway (see fig.4; col.19, lines 13-18); producing an electrical potential difference between the fluid at the openings and the counter electrode (col.18, lines 3-7; col.8, lines 34-39; col.5, lines 37-65); causing the liquid to be ejected from the openings in droplets and ions to be ejected from the droplets (col.12, lines 17-29). Further, Schulz et al disclose a mass spectrometer detector (col.12, lines 25-29).

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Allowable Subject Matter

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15. Claims 24-25, 27, and 29-32 are allowed. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to teach or fairly suggest a slanted tip as recited in claim 24.

16. For the same reason, claims 6 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

- 17. Applicant's arguments filed 2-24-05 have been fully considered but they are not persuasive. Applicant argues two points: 1) Schultz does not teach the nozzle contains a plurality of openings for ejecting droplets, and 2) Schultz does not disclose a counter electrode assembly having an ion passageway. Each will be addressed in turn.
- 18. MPEP 2111 requires each claim be given its broadest reasonable interpretation. Here, the claim language requires one reservoir; one

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manifold having a plurality of nozzles; a conduit connecting the reservoir to the manifold; and a counter electrode. More pertinent to the present argument, the claim language requires each nozzle have a channel and a plurality of openings. Broadly defined, this limitation demands the channel have a first end opening and distal end opening --- a plurality of openings. This interpretation is consistent with applicant's specification (pg. 8, lines 1-9). Schultz discloses each nozzle having a channel with two openings: one at the manifold end and the other at the spraying end (see fig. 5b). These opening are for ejecting droplets as required. Therefore, Schultz teaches the claimed invention in total.

19. Applicant also argues Schultz does not discloses a counter electrode having an ion passageway. The strict test of anticipation is not ipissimis verbis, i.e. it does not require identical terminology. The recitation "a counter electrode assembly having an ion passageway" is describes in col.19, lines 13-18 of Schultz. As stated previously, applicant's continued argument regarding the recited counter-electrode has been considered, but is not persuasive. In response, applicant is directed to col.19, lines 13-18 of Schulz. Here, Schultz describes an additional electrode as an ion-sampling orifice, which functions to control the electric field--- acts as a counter-

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electrode. An ion-sampling orifice electrode has an ion passageway.

Schulz goes on to disclose additional electrodes can be employed in col.

22, lines 17-28. Therefore, this disclosure anticipates the disputed limitation and places the claimed invention in the possession of the public.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kalimah Fernandez whose telephone number is 571-272-2470. The examiner can normally be reached on Mon-Tues 6:30-3:30; Wed-Thurs 8-5 and Fri.9am-6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on 571-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KF

JOHN R. LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800